Access DB# 164306

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sin J. Lee Examiner #: 76060 Date: 8-26-05
Art Unit: 1752 Phone Number 30 2-1333 Serial Number: 10/808,425
Mail Box and Bldg/Room Location: 9D69 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Plz. see B.b.

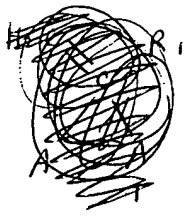
Inventors (please provide full names): _____

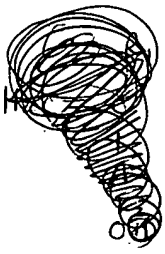
_____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please search for a polymer made from the monomer of formula (2) or monomer of formula (3) of Cl. #1





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STAFF USE ONLY	Type of Search	Vendors and cost where applicable
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Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: 9-17-05	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
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Online Time: _____	Other _____	Other (specify)_____

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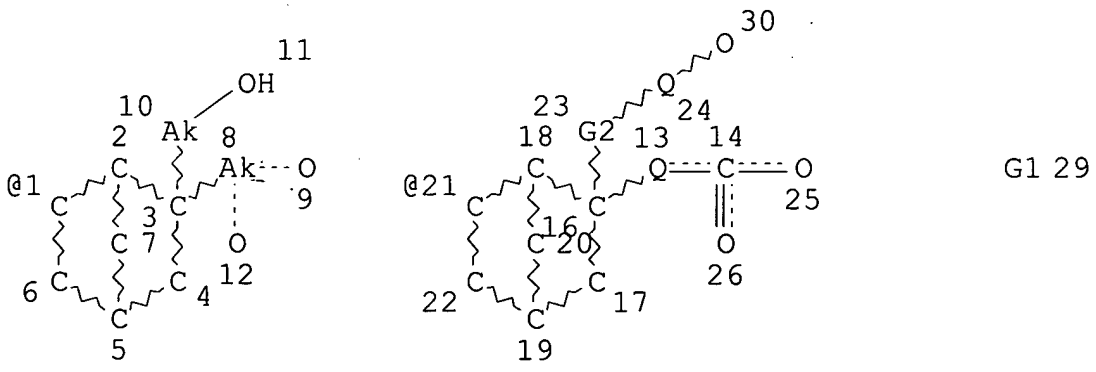

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STEREO ATTRIBUTES: NONE
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L10  ANSWER 1 OF 5  ZCAPLUS  COPYRIGHT 2005 ACS on STN
AN   2001:359996  ZCAPLUS
DN   134:366887
ED   Entered STN:  18 May 2001
TI   Preparation of 8-substituted xanthines as adenosine receptor
     antagonists
IN   Dowling, James E.; Ensinger, Carol; Kumaravel, Gnanasambandam;
     Petter, Russell C.
PA   Biogen, Inc., USA
SO   PCT Int. Appl., 61 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
IC   ICM  C07D473-00
CC   28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
     Section cross-reference(s): 1
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
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	US 2003225038	A1	20031204	US 2003-461534 200306 12
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	US 2000-711554	A1	20001113	
	WO 2000-US31100	W	20001113	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001034604	ICM	C07D473-00
WO 2001034604	ECLA	C07D473/06
US 6605600	NCL	514/081.000; 514/263.200; 514/263.220; 514/263.230; 514/263.340; 514/263.350; 514/263.360; 544/267.000; 544/268.000; 544/270.000; 544/271.000; 544/272.000; 544/273.000
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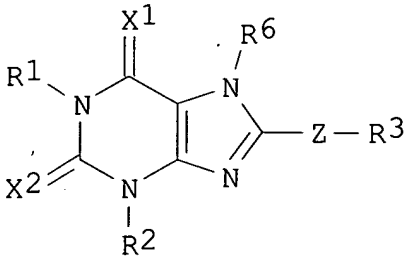
OS MARPAT 134:366887

GI



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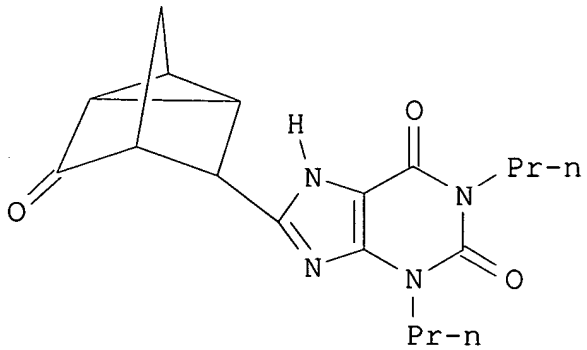

II

AB The title compds. [I; R1, R2 = H, alkyl, alkenyl, etc.; R3 = (un)substituted bicyclic or tricyclic group; X1, X2 = O, S; Z = a single bond, O, (CH2)1-3, etc.; R6 = H, alkyl, acyl, etc.] which are unexpectedly highly potent and selective inhibitors of the adenosine

A1 receptor, and therefore are useful in the prevention and/or treatment of numerous diseases, including cardiac and circulatory disorders, degenerative disorders of the central nervous system, respiratory disorders, and many diseases for which diuretic treatment is suitable, were prepd. E.g., a 2-step synthesis of II was given. All of the compds. I tested exhibited rat A1 Ki values between 0.47 and 1225 nM, human A1 Ki values between 12 and 1000 nM, and human A2a Ki values between 18 and 100,000 nM.

ST xanthine prepn adenosine receptor antagonist

IT Purinoceptor antagonists
(A1; prepn. of 8-substituted xanthines as adenosine receptor antagonists)

IT Adenosine receptors
(A2a; prepn. of 8-substituted xanthines as adenosine receptor antagonists)

IT 340162-94-9P 340162-95-0P 340162-96-1P 340162-97-2P
340162-98-3P 340163-03-3P 340163-10-2P 340163-12-4P
340163-13-5P 340163-16-8P 340163-19-1P 340163-20-4P
340163-23-7P 340163-24-8P 340163-28-2P 340163-98-6P
340164-04-7P 340255-16-5P 340255-22-3P
(prepn. of 8-substituted xanthines as adenosine receptor antagonists)

IT 340162-99-4P 340163-00-0P 340163-01-1P 340163-02-2P
340163-04-4P **340163-05-5P** 340163-06-6P 340163-07-7P
340163-08-8P 340163-09-9P 340163-11-3P 340163-14-6P
340163-15-7P 340163-17-9P 340163-18-0P 340163-21-5P
340163-22-6P 340163-25-9P 340163-27-1P 340163-29-3P
340163-30-6P 340163-32-8P 340163-34-0P 340163-36-2P
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340255-17-6P 340255-19-8P 340255-20-1P 340255-24-5P
340255-29-0P 340255-32-5P 340266-61-7P
(prepn. of 8-substituted xanthines as adenosine receptor antagonists)

IT 108-00-9 110-87-2 123-75-1, Pyrrolidine, reactions 2033-24-1, Meldrum's acid 5437-45-6, Benzyl bromoacetate 5805-57-2, 1H-Benzimidazole-2-methanamine 7148-07-4, 1-(Cyclopent-1-enyl)pyrrolidine 13734-41-3, tert-Butoxycarbonyl-L-valine 18355-96-9, (3-Dimethylaminopropyl)triphenylphosphonium bromide

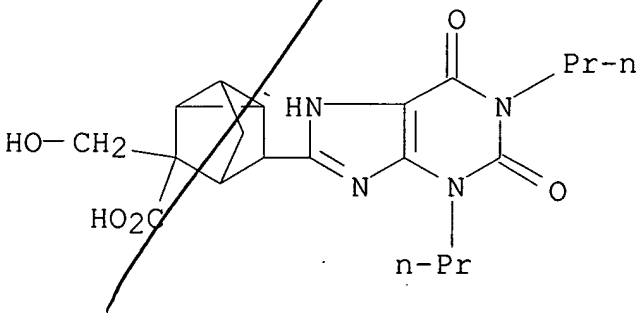
19530-66-6 31542-62-8 40458-77-3, 8-Oxabicyclo[3.2.1]oct-6-en-3-one 52730-40-2 57260-73-8 58539-11-0 101915-50-8, 2-Oxo-bicyclo[2.2.1]heptane-7-carboxylic acid 133058-80-7 172288-92-5 274690-13-0, 4-Acetoxybicyclo[3.2.1]octane-6-carboxylic acid 324002-49-5 340023-21-4 340164-32-1, 3-Oxo-bicyclo[3.2.1]octane-8-carboxylic acid 340164-33-2 340164-34-3 340255-31-4
(prepn. of 8-substituted xanthines as adenosine receptor antagonists)

IT 340022-92-6P 340022-93-7P 340022-94-8P 340023-20-3P 340023-25-8P 340164-07-0P 340164-08-1P 340164-09-2P 340164-10-5P 340164-11-6P 340164-12-7P 340164-13-8P 340164-14-9P 340164-15-0P 340164-16-1P 340164-17-2P 340164-18-3P 340164-19-4P 340164-20-7P 340164-21-8P 340164-22-9P 340164-23-0P 340164-24-1P 340164-25-2P 340164-26-3P 340164-27-4P 340164-28-5P 340164-29-6P 340164-30-9P 340164-31-0P 340255-30-3P
(prepn. of 8-substituted xanthines as adenosine receptor antagonists)

IT **340163-05-5P**
(prepn. of 8-substituted xanthines as adenosine receptor antagonists)

RN 340163-05-5 ZCAPLUS

CN Tricyclo[2.2.1.02,6]heptane-3-carboxylic acid, 3-(hydroxymethyl)-5-(2,3,6,7-tetrahydro-2,6-dioxo-1,3-dipropyl-1H-purin-8-yl)- (9CI) (CA INDEX NAME)



L10 ANSWER 2 OF 5 ZCAPLUS COPYRIGHT 2005 ACS on STN

AN 1993:649599 ZCAPLUS

DN 119:249599

ED Entered STN: 11 Dec 1993

TI Gem-Cycloalkyl substituted thiol inhibitors of neutral endopeptidase 24.11. Synthesis via nucleophilic opening of 2,2-spiro-.beta.-lactones

AU James, Keith; Palmer, Michael J.

CS Dep. Discovery Chem., Pfizer Cent. Res., Sandwich/Kent, CT13 9NJ, UK

SO Bioorganic & Medicinal Chemistry Letters (1993), 3(5), 825-30
CODEN: BMCLE8; ISSN: 0960-894X
DT Journal
LA English
CC 24-5 (Alicyclic Compounds)
Section cross-reference(s): 1, 7
OS CASREACT 119:249599
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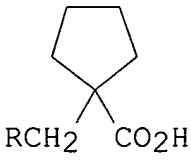

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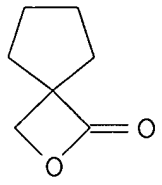

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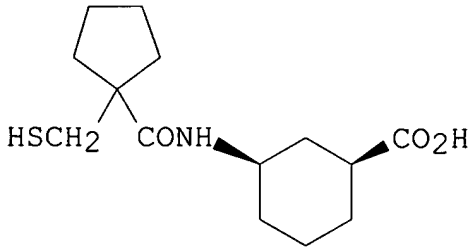


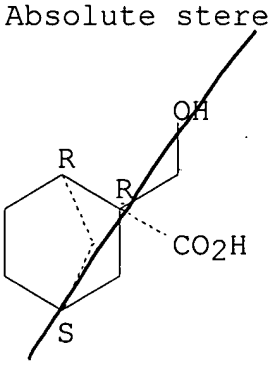
III

AB Concise syntheses are described of a series of gem-cycloalkyl substituted thiols which are inhibitors of neutral endopeptidase 24.11. The route employs mild closure of strained 2,2-spiro-.beta.-lactones from .beta.-hydroxy-acids using triflic anhydride, followed by O-alkyl cleavage with potassium thioacetate. Thus, hydroxymethylcyclopentanecarboxylic acid I (R = OH) was treated with O(SO2CF3) and Et3N in Et2O to give 71% the spiro lactone II which was treated with AcSK in EtOH to give 30% I (R = AcS). Sequential amidation of I (R = AcS) with benzyl (.+-.)-cis-3-aminocyclohexanecarboxylate in the presence of 1-ethyl-3-(dimethylaminopropyl)carbodiimide, N-methylmorpholine, and 1-hydroxybenzotrizole followed by hydrolysis with aq. NaOH gave 61% the (carboxycyclohexyl)(mercaptomethyl)cyclopentanecarboxamide III.

ST mercaptoalkylamidocarboxylic acid prepn endopeptidase inhibitor; hydroxy acid conversion thiol endopeptidase inhibitor; carboxycyclohexylmercaptomethylcyclopentanecarboxamide prepn endopeptidase inhibitor
IT 118755-56-9
(acylation of, with (acetylthiomethyl)cycloalkanecarboxylic acids)
IT 3081-24-1, S-Phenylalanine ethyl ester
(acylation of, with (acetylthiomethyl)cyclopentanecarboxylic acid)
IT 91702-98-6
(amidation of, with aminocyclohexanecarboxylic acid ester)
IT 9001-92-7, Endopeptidase
(inhibitors, mercaptoalkylamidocarboxylic acids)
IT 55987-28-5 102539-92-4 150986-11-1 150986-14-4

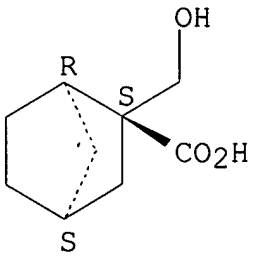
151062-36-1 151062-38-3
(lactonization of)
IT 2313-04-4P, 2-Oxaspiro[3.5]nonan-1-one 5733-02-8P, 2-Oxaspiro[3.4]octan-1-one 151062-39-4P
(prepn. and addn. reaction-ring cleavage of, with thioacetate)
IT 151062-37-2P
(prepn. and addnl. reaction-ring cleavage of, with thioacetate)
IT 137613-93-5P
(prepn. and amidation of, with amino acids)
IT 149705-49-7P
(prepn. and amidation of, with aminocyclohexanecarboxylic acid ester)
IT 150986-12-2P 150986-15-5P
(prepn. and attempted ring cleavage of, with thioacetate)
IT 123985-46-6P 150986-10-0P 150986-16-6P 150986-17-7P
(prepn. and endopeptidase-inhibiting activity of)
IT 150986-09-7P
(prepn. and hydrolysis of)
IT 150986-13-3P 151062-40-7P
(prepn. of)
IT **151062-36-1 151062-38-3**
(lactonization of)
RN 151062-36-1 ZCAPLUS
CN Bicyclo[2.2.1]heptane-2-carboxylic acid, 2-(hydroxymethyl)-, (1R-exo)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 151062-38-3 ZCAPLUS
CN Bicyclo[2.2.1]heptane-2-carboxylic acid, 2-(hydroxymethyl)-, (1R-endo)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L10 ANSWER 3 OF 5 ZCAPLUS COPYRIGHT 2005 ACS on STN
AN 1981:139172 ZCAPLUS
DN 94:139172
ED Entered STN: 12 May 1984
TI General synthesis of exomethylene-.gamma.-lactones via the retro-Diels-Alder reaction
AU Ichihara, Akitami; Nio, Noriki; Sakamura, Sadao
CS Dep. Agric. Chem., Hokkaido Univ., Sapporo, 060, Japan
SO Tetrahedron Letters (1980), 21(46), 4467-8
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
CC 23-17 (Aliphatic Compounds)
Section cross-reference(s): 24, 25
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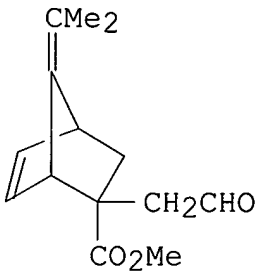

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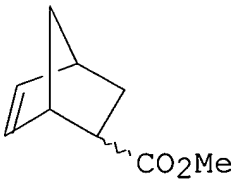

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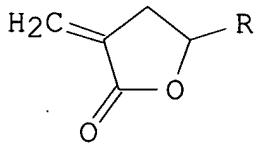


III

AB The norbornenyl aldehyde I, prepd. in 2 steps (50.4%) from the norbornenyl ester II, underwent sequential redn., hydrolysis, lactonization, and retro-Diels-Alder reaction (C6H6, 140.degree., 30 min) to give 70% tulipalin A (III; R = H). Alkylation of I by MeMgI, EtMgBr, or PhMgBr followed by the sequential redn., hydrolysis, lactonization, and retro-Diels-Alder reaction gave III (R = Me, Et, Ph) in 60, 54, and 80% yields, resp.
ST methylenealkylbutyrolactone; butyrolactone alkyl methylene; Diels

Alder retro norbornenyl lactone; lactonization norbornenehydroxycarboxylate; tulipalin A

IT Lactones
(exomethylene, prepn. of, by retro-Diels-Alder reaction of norbornenyl lactones)

IT Lactones
(norbornenyl, retro Diels-Alder reaction of, exomethylene lactones by)

IT Lactonization
(of norbornenehydroxycarboxylates)

IT Diels-Alder reaction
(retro, of norbornenyl lactones, exomethylene lactones by)

IT 106-93-4
(alkylation by, of norbornenecarboxylate)

IT 69690-26-2
(alkylation of, by ethylene dibromide)

IT **77100-98-2P**
(prepn. and lactonization of)

IT 77100-99-3P
(prepn. and redn. of)

IT 77101-01-0P 77101-02-1P 77101-03-2P 77101-04-3P
(prepn. and retro-Diels-Alder reaction of, exomethylene lactone by)

IT 547-65-9P 26613-71-8P 62873-16-9P 67964-41-4P
(prepn. of, by retro-Diels-Alder reaction of norbornene lactone)

IT 77101-00-9P
(prepn., alkylation, and redn. of)

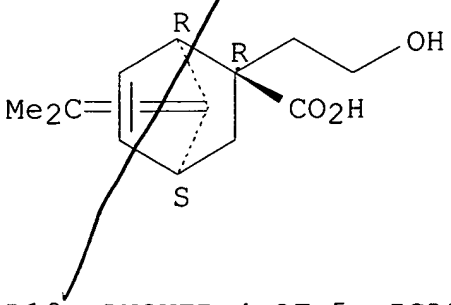
IT 77100-97-1P
(prepn., hydroxylation, and hydrolysis of)

IT **77100-98-2P**
(prepn. and lactonization of)

RN 77100-98-2 ZCAPLUS

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 2-(2-hydroxyethyl)-7-(1-methylethylidene)-, endo- (9CI) (CA INDEX NAME)

Relative stereochemistry.

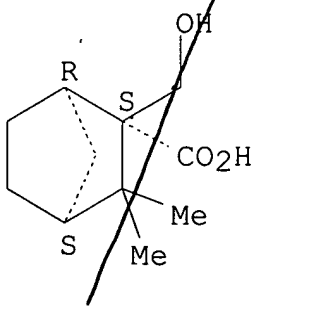


L10 ANSWER 4 OF 5 ZCAPLUS COPYRIGHT 2005 ACS on STN

AN 1971:445119 ZCAPLUS

DN 75:45119
ED Entered STN: 12 May 1984
TI Orbital steering and the catalytic power of enzymes
AU Port, G. N. J.; Richards, W. G.
CS Phys. Chem. Lab., Oxford, UK
SO Nature (London, United Kingdom) (1971), 231(5301), 312-13
CODEN: NATUAS; ISSN: 0028-0836
DT Journal
LA English
CC 3 (Enzymes)
AB Only slight differences in the ratio of overlap integrals between the atoms involved in bond formation between a model series of compds. indicated that the enormous rate of differences obsd. in enzyme catalysis could not be explained by the orbital steering theory of D. E. Koshland, 1962.
ST orbital steering theory enzyme; overlap integrals enzyme catalysis
IT Molecular orbitals
(of hydroxy acids, enzyme reaction mechanisms in relation to)
IT Enzymes
(reaction mechanism of, orbital steering in)
IT 591-81-1 612-20-4 **33913-57-4** 33913-58-5
(molecular orbitals of)
IT **33913-57-4**
(molecular orbitals of)
RN 33913-57-4 ZCAPLUS
CN 2-Norbornanecarboxylic acid, 2-(hydroxymethyl)-3,3-dimethyl-, stereoisomer (8CI) (CA INDEX NAME)

Relative stereochemistry.



L10 ANSWER 5 OF 5 ZCAPLUS COPYRIGHT 2005 ACS on STN
AN 1969:513318 ZCAPLUS
DN 71:113318
ED Entered STN: 12 May 1984
TI Synthesis and polymerization of .alpha.,.alpha.-spirobicyclic .beta.-lactones
AU Hall, Henry Kingston, Jr.; Dence, Joseph B.; Wilson, Donald R.

CS Pioneering Res. Div., E. I. du Pont de Nemours and Co. Inc., Wilmington, DE, USA
SO Macromolecules (1969), 2(5), 475-88
CODEN: MAMOBX; ISSN: 0024-9297
DT Journal
LA English
CC 35 (Synthetic High Polymers)
GI For diagram(s), see printed CA Issue.
AB Et .alpha.-hydroxymethylacrylate was converted to .alpha.-chloromethylac-ryloyl chloride, which readily underwent Diels-Alder reactions with butadiene, cyclopentadiene, and anthracene. I-III were hydrolyzed to the corresponding chloro acids, which cyclized under alk. conditions to the spiro-.beta.-lactones IV-VI. Hydrogenation of the bicycloheptene chloro acid and cyclization gave the bicycloheptane lactone. When treated with a carboxylate initiator, these polymd. to high-melting polyesters. The cyclohexene and bicycloheptane monomers, perhaps because of their greater reactivity, gave higher-mol.-wt. polymers than the bicycloheptene and anthracene compds. The methylene protons of many of the intermediates were magnetically nonequiv.
ST spirobicyclic lactones prepn polymn; lactones spirobicyclic prepn polymn; polyspirolactones prepn
IT Polyesters, preparation
(from spirolactones)
IT Spiro compounds
(lactones, polyesters)
IT Polymerization catalysts
(phosphonium betaines, for spirolactones)
IT Lactones
(polyesters from spiro-)
IT 25255-89-4
(catalysts, for polymn. of spirolactones)
IT 3944-66-9P 19978-14-4P 23753-44-8P 23753-45-9P 23753-46-0P
23753-47-1P 25188-80-1P 25190-35-6P 25190-36-7P 25190-37-8P
25190-38-9P 25190-39-0P 25250-70-8P 25255-48-5P 25255-49-6P
25255-50-9P 25255-51-0P 25255-52-1P 25255-54-3P 25255-55-4P
25255-56-5P 25255-57-6P 25255-58-7P 25255-60-1P 25255-61-2P
25255-62-3P 25255-64-5P 25255-65-6P 25255-66-7P 25255-68-9P
25255-69-0P **25255-70-3P** 25255-71-4P 25255-73-6P
25255-74-7P 25255-75-8P 25255-77-0P 25255-78-1P
25255-79-2P 25255-80-5P 25255-81-6P 25255-83-8P 25255-85-0P
25255-86-1P 25255-87-2P 25255-88-3P 25267-06-5P 25267-08-7P
25281-57-6P 25281-60-1P 25573-48-2P 25711-38-0P 25711-39-1P
(prepn. of)
IT 50-00-0, Formaldehyde
(reaction products with ethyl (hydroxymethyl)norbornenecarboxylate naphthalenesulfonate)
IT 25255-68-9

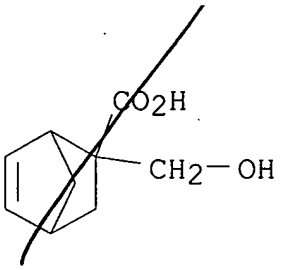
(reaction products with formaldehyde)

IT **25255-70-3P 25255-74-7P**

(prepn. of)

RN 25255-70-3 ZCAPLUS

CN 5-Norbornene-2-carboxylic acid, 2-(hydroxymethyl)- (8CI) (CA INDEX NAME)



RN 25255-74-7 ZCAPLUS

CN Bicyclo[2.2.1]heptane-2-carboxylic acid, 2-(hydroxymethyl)- (9CI) (CA INDEX NAME)